



NREL's Mission

NREL develops renewable energy and energy efficiency technologies and practices, advances related science and engineering, and transfers knowledge and innovations to address the nation's energy and environmental goals.

www.nrel.gov/employment

Equal Opportunity

NREL is an equal opportunity employer committed to diversity and a drug-free workplace.

National Renewable Energy Laboratory
1617 Cole Boulevard
Golden, Colorado 80401
303.275.3000

NREL is a national laboratory of the
U.S. Department of Energy, Office of Energy
Efficiency & Renewable Energy, operated by
the Alliance for Sustainable Energy, LLC.

The National Renewable Energy Laboratory (NREL), located in beautiful Golden, Colorado, is a leader in the U.S. Department of Energy's effort to secure an energy future for the nation that is environmentally and economically sustainable.

Engineer IV - Sr. Transmission Engineer, 2330BR

Job Summary: To lead the Transmission and Grid Integration group projects on transmission related work and transmission expansion. This position will work closely with senior level engineers and economists to examine ways of using more of the existing grid, such as ATC re-rating and conditional firm; to assist with policies and planning to facilitate development of more transmission; technical review for utility integration studies and transmission modeling; evaluate/develop new approaches for integration analysis; and to provide outreach to transmission planning groups and relevant stakeholders that include utilities, transmission planning organizations and regulators. The ideal candidate will have knowledge of offshore collection network and high voltage DC issues is a plus. This person should have a broad understanding of utility operational practice and planning methods; FERC open access orders and tariffs and regional power market rules.

Job duties and responsibilities: Lead transmission support for planning and policies that facilitate development of more transmission for renewable resource areas. Work directly with Regional Reliability Organizations, Regional Transmission Organizations, and Independent Systems Operators or other utility-related entity to provide ongoing analysis of renewable energy in the bulk power system and support sub-regional and regional efforts in transmission analysis. This person should be fluent with electricity production simulation and reliability models, but will not necessarily run these models. Lead outreach to transmission planning groups, regulators, utilities and other decision makers on transmission issues for renewable energy impacts on bulk power generation and transmission operation. Deliver presentations at workshops and conferences on utility integration. Publish technical reports on results in technical journals/conference proceedings. Lead and support development of competitive award proposals with lab and industry partners.

Required Education and Experience: Relevant PhD and 4 or more years of experience or equivalent relevant education/experience, or, relevant Master's Degree and 7 or more years of experience or equivalent relevant education/experience, or relevant Bachelor's Degree and 9 or more years of experience or equivalent relevant education/experience.

Required Knowledge, Skills and Attributes: Applies extensive engineering technical expertise, and has full knowledge of other related disciplines. Considered a technical resource. Demonstrates leadership in



NREL's Mission

NREL develops renewable energy and energy efficiency technologies and practices, advances related science and engineering, and transfers knowledge and innovations to address the nation's energy and environmental goals.

www.nrel.gov/employment

Equal Opportunity

NREL is an equal opportunity employer committed to diversity and a drug-free workplace.

National Renewable Energy Laboratory
1617 Cole Boulevard
Golden, Colorado 80401
303.275.3000

NREL is a national laboratory of the
U.S. Department of Energy, Office of Energy
Efficiency & Renewable Energy, operated by
the Alliance for Sustainable Energy, LLC.

several areas of team, task or project lead responsibilities. Demonstrated experience in management of projects. Excellent writing, interpersonal and communication skills.

Additional Required Knowledge, Skills and Attributes: Ability to conduct system stability analysis, load flow studies, production cost simulation. Knowledge of utility integration studies, transmission planning studies, wind and solar integration impacts, ability to use electricity production simulation or market analysis tool.

Preferred Qualifications: PhD in engineering, economics or related discipline. Ten years of relevant engineering, science and/or R&D experience. Experience communicating with industry stakeholders, particularly at transmission planning meetings. Understanding of the data sets used for transmission models. Technical knowledge of line ratings. Industry experience.

EEO Policy / E-Verify NREL is dedicated to the principles of equal employment opportunity. NREL promotes a work environment that does not discriminate against workers or job applicants and prohibits unlawful discrimination on the basis of race, color, religion, sex, national origin, disability, age, marital status, ancestry, actual or perceived sexual orientation, or veteran status, including special disabled veterans.

NREL validates right to work using E-Verify. NREL will provide the Social Security Administration (SSA) and, if necessary, the Department of Homeland Security (DHS), with information from each new employee's Form I-9 to confirm work authorization. For additional information, please see www.nrel.gov/employment/eeo.html.

To apply, or for additional information, contact: Marlo Hughen, Sr. Recruiter, NREL: Marlo.Hughen@NREL.gov

Or visit our jobs webpage at www.nrel.gov/employment and search for requisition 2330.